



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO038599	MEC002-VU	1	1	Net 30	M17-4-B1.250X02.000	17-4 SS Bar 1.250 x 2.00 : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGHT OF BAR MIN. YIELD TENSILE STRENGTH = 100 KSI MIN. ULTIMATE TENSILE STRENGTH = 150 KSI receive ft				12	12/22/2017	14		S030457	Stock	1/9/2018	\$ 53.29 / ft	0		\$724.74	Metaux Castle
Total:										12		14								\$724.74	

Plex 1/9/2018 12:44 PM Dart.Plouffe.Sonia

Status: Receiving

Part: **M17-4-B1.250X02**

Created: 1/9/18 12:44 PM DART.PLOUFFE.SO



Serial No: **S030457**



Castle Metals®

A. M. Castle & Co.


PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3477326

<b>Ship From:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 08-JAN-18	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> MANITOULIN	<b>BOL No</b> 3477326-2			

<b>Shipment Details</b>		<b>Final Destination Branch - TOR</b>	
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<b>Order No</b> 4980796	<b>Line No</b> 1	<b>Item No</b> 9166.B0	<b>Description</b> 1.2500.2.0000.FLAT.17CR-4NI.STAINLESS.HR.ANN.PICKLE.132.0000 156.0000 SPECIFICATIONS: AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com				
<b>Purchase Order No</b> 38599		<b>Part Number</b>		<b>Ordered Qty</b> 102.00 LBS	<b>Invoice Qty</b> 13.7708 FT		
<b>Details</b> ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS							
<b>Delivery No.</b> 121515943	<b>Mill/Source</b>	<b>Heat Number</b> 	<b>Mech Id</b> 1	<b>PCS</b>	<b>Width (IN)</b> 1.0000	<b>Length (IN)</b> 165.2500	<b>Shipped Qty(LBS)</b> 117.0521

881801-9



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Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative

Date:

Name:

JAN 08 2018





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO038599**

**Supplier:** MEC002-VU  
Metaux Castle  
P.O. Box 4090 Stn A  
Toronto  
ON  
M5W OE9 Canada

**PO No:** PO038599

**PO Date:** 12/7/17

**Due Date:** 12/22/17

**Purchase Order**  
**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
DEC 17 2017

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

## Items

Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M17-4-B1.250X02.000	17-4 SS Bar 1.250 x 2.00 : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGHT OF BAR MIN. YIELD TENSILE STRENGTH = 100 KSI MIN. ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	12/22/17	12 ft	0 ft	12 ft	\$53.29/ft	\$639.48
2	M7075T6S4.000X3.000	7075-T6S Sheet 4.000" Thick X 3.000" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	12/22/17	12 ft	0 ft	12 ft	\$82.60/ft	\$991.20

**Line Item Note** NOTE: PLEASE CUT IN SECTION OF 6 FT LENGHT

**Grand Total:** \$1,630.68

## Order Notes

## Order Notes

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents  
  
A048 counterfeit parts avoidance, detection, mitigation and disposition program  
  
A049 supplier awareness



Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 12/7/17 3:12 PM dart.lavoie.chantal

## Chantal Lavoie

---

**From:** Desbiens, Marc <mdesbien@amcastle.com>  
**Sent:** Thursday, November 30, 2017 11:36 AM  
**To:** Chantal Lavoie  
**Subject:** RE: quote

Hi Chantal,

36519

price an delivery on item.

~~17-4 bar 1.250" x 2" x 12 ft \$ 53.29 Ft 2 weeks~~  
~~7075-t6 plate 4" x 3" x 12 ft \$ 82.60 Ft 2-3 weeks~~  
7075-t6 plate 4" x 4" cut at 32" x 10 pcs \$ 254.00 piece 2-3 weeks

Thanks

Marc Desbiens  
Inside sales representative  
Castle Metals, Montreal, QC  
Direct line 514-795-8176  
1-800-806-6660 ext 52226  
Fax # 1-855-892-6370

*Customized Supply Chain Solutions for Your Metal Needs*

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**Acciaierie Valbruna S.p.A.**

38100 VICENZA (Italia) - Via della scienza, 25 / 1  
Telefono 0444.985211 - Fax 0444.983836  
Stab : 39100 BOLZANO (Italia) - Via A. Volta, 4/37  
Telefono 0471.924111 - Fax 0471.924497

**CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION**

In conformità a: **EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1**

Certificato n. **MEST067357 / 2017 /**

Cliente / Beneficiario/Client:  
**VALBRUNA STAINLESS INC.**  
2400 TAYLOR STREET WEST  
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: **Hot rolled Descalced COND. A. Hot rolled**

Produttore:  
**ACCIAIERIE VALBRUNA S.P.A.**

Ordine n. **51504 STOCK CAROL STR**

Tipo di Elaborazione: **E+AOD**

Marchi di Fabbrica:  
**AV**

Conferma ordine n. **E16011062**

Qualità: **830**

Punzone del Collaudatore:  
**MR**

Avviso di Spedizione: **D-VI17013311**

Marca: **V174**

Punzonatura **830**

**SPECIFICHE:**

ANSI A320.1 630 A  
AISI 630  
AMS 2303 F  
AMS 5643 U S17400 A  
AMS-H-6875 B NOVEMBER 2010  
ASME SA564 2015 S17400 A (0)  
ASTM A320 2015  
ASTM A564 2013 S17400 A  
ASTM F899 2012 630

(REVISIONE) PL 2015 EDITION



**Tolleranze ASTM A484-18 TABLE 5**

Pos. nr.	Coppo	Dimensioni - In	Lunghezza - In	Colore	Pezzi	Peso - LB	Lotto nr.
0290	Flat	2,0000 x 1,2500	151/ 162	271864		2,326	531211100

**TEST ALLO STATO DI FORNITURA**

Test on delivery condition / Prüfung auf Lieferzustand / Test à l'état de livraison / Prueba sobre el material así como entregado

TEST	PROVISTA / Provenance	Temp. / Temp.	Pos. / Pos.	Servizi / Services	Servizi / Services	Resistenza / Resistance	Alungamento / Elongation	Sutture / Sutures	Resistenza / Resistance	Durezza / Hardness
	Long term / Long term	Long term / Long term	Long term / Long term	Long term / Long term	Long term / Long term	Long term / Long term	Long term / Long term	Long term / Long term	Long term / Long term	Long term / Long term
	min	max								363
A										349

**TEST ALLO STATO DI FORNITURA**

Test on delivery condition / Prüfung auf Lieferzustand / Test à l'état de livraison / Prueba sobre el material así como entregado

TEST	min	max
A Delle Ferrie		5,0
A Grain size for ASTM E112		0 %
A RATINGS FREQUENCY		5
A RATINGS SEVERITY		0
		1,10
		1,05
		2

Vicenza, 09/05/17

VC0006 - MEST067357

(Mod. MCC2)

Il collaboratore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine

**M. RIZZOTTO**

Pagina - 1 di 3

36100 VICENZA (Italia) - Viale della scienza, 25 s.l.  
Telefono 0444.898211 - Fax 0444.893838  
Sito: 33100 BOLLANO (Italia) - Via A. Volta, 4/37  
Telefono 0471.824111 - Fax 0471.824497

Certificato nr. MEST067357 / 2017 /

Productions :

Marchi di Fabbrica  
Lugger sul Lubrificatore  
Tutti i marchi  
Tutti gli oli Lubrificanti

**Partners and Collaborators:**  
 Darnell de la Haza, [ddela@uic.edu](mailto:ddela@uic.edu)  
 Ingrid de la Haza, [ingrid@uic.edu](mailto:ingrid@uic.edu)

புறமங்கலம்: 630  
கோட்டைமங்கலம்  
மேல்: 630  
மேல்: 630

(Mod MCE2)





**Acciaierie Valbruna** S.p.A.

38100 VICENZA (Italia) - Viale delle Scienze, 25 z.l.  
Telefono 0444.988211 - Fax 0444.983838  
Stab.: 35103 BOLZANO (Italia) - Via A. Volta, 4/37  
Telefono 0471.924111 - Fax 0471.924497

**CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION**

In conformità a: EN 10204 (2004) 3.1 / ISO 10474 (2013) 3.1

Certificato nr. MEST057357 / 2017 /

Cliente / Customer/Purchaser/Client  
**VALBRUNA STAINLESS INC.**  
2400 TAYLOR STREET WEST  
45801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled Descaler COND. A Hot rolled  
Lieferungszustand  
Delivery state  
Stat de livraison

Produttore:  
Hersteller/Manufacturer/Produktions

**ACCIAIERIE VALBRUNA S.P.A.**

Ordine nr: 31504 STOCK CAROL STR  
Bestell-  
You order  
Commande nr

Tipo di Elaborazione: E-AOD  
Erstellungszustand  
Working process  
Méthode d'élaboration

Marchi di Fabbrica:  
Zusatz des Herstellers  
Trade marks  
Signes de l'usine/production



Conferma ordine nr: E116311062  
Bestätigung der Bestellung

Qualità 630  
Produktqualität

Funzione del Collaudatore:  
Zusatz des Prüfzeugen  
Inspector = AS/AS/Prüfung des Materials

MR

Avviso di Spedizione D-VI17013311  
Lieferungszustand

Marchio: V174  
Markennummer  
Brand / Markenzeichen

Funzionamento: 630  
Kornstruktur  
Marking  
Markierung

Made and manufactured in Italy No welding re-weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

**QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2008, ISO/TS16949 : 2009, AS 9100C**

The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, 4.3 and 7014/88/EEC by TÜV and LLOYD'S  
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction  
Material and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.  
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products

Vicenza, 09/05/17

VCO004 - MEST057357

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkbauchverständige / Works Inspector / L'agent d'usine

M. RIZZOTTO

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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-B1-250X02000  
 DATE: JAN 09 2018

PO / BATCH NO.: 038599/5030457

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 14 (13 1/2)  
 QUANTITY INSPECTED: 14  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250  
 THICKNESS RECEIVED: 1.250  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>Astm 564</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input type="radio"/> N	<u>Heat # 271864</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

<b>QC 18 INSPECTION</b>		<b>ENGINEERING SIGNOFF (if required)</b>	
INSPECTED BY: <u><b>11</b></u> DATE: <u>JAN 09 2018</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

**PURCHASE MATERIAL:** 17-4 PH / TYPE 630 / S17400 SS BAR  
GRAIN MUST BE ALONG LENGTH OF BAR  
MINIMUM YIELD STRENGTH PER TABLE  
MINIMUM ULTIMATE STRENGTH PER TABLE

**SPECIFICATION:** AMS 5604 OR AMS 5643 OR ASTM A693 OR ASTM 564

**PART NUMBER:** M17-4-1 HHHHH-B T.TTT X WW.WWW  
COND THICK WIDTH

WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)  
T.TTT SPECIFIES THE THICKNESS  
WW.WWW SPECIFIES THE WIDTH

## MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

**NOTES:** MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS  
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE  
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

## EXAMPLES:

**PART**  
0.250" X 4.000" BAR MIN YTS = 150 KSI, MIN YTS = 100 KSI  
1.000" X 2.500" BAR H900 CONDITION  
0.500" X 3.250" BAR H1025 CONDITION  
0.750" X 2.500" BAR A CONDITION

**PART NUMBER**  
M17-4-B0.250X4.000  
M17-4-H900-B1.000X2.500  
M17-4-H1025-B0.500X3.250  
M17-4-CONDA-B0.750X2.500

RELEASED  
2017-10-31  
ECM17-728

APPROVED

REV.	DESCRIPTION	NO.	DATE
A	ADD MATERIAL CONDITION AND REFORMAT DRAWING (CIR17-107)	DS	17.09.14
B		DS	02.04.18
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	DD		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA  
DRAWING NO. M17-4-B  
SHEET 1 OF 1  
REV. B  
SCALE  
NTS

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